

# OEM

## Original Equipment Manufacturing

### Dispensing equipment and systems

**Sophisticated technology, high degree of flexibility.**

**The ideal dosing system for any requirement.**

The precision performance of our liquid handling devices is trusted around the world. They contribute to an ideal dosing system when combined with our reliable and sophisticated installations, automation modules and control technology. These high-precision dosing systems handle even critical media, such as foaming, aggressive, thixotropic, or highly viscous materials.

**The seripettor® dosing system**

Reliable dispensing technology for sensitive applications. Suitable for aqueous media and many others.

**Single-use seripettor® FD Technology dosing system**

Developed especially for use in the highly sensitive pharma and consumer areas.

**Dispensette® dosing system**

For particularly difficult dispensing tasks, system components from the Dispensette® line of bottle-top dispensers can be used.



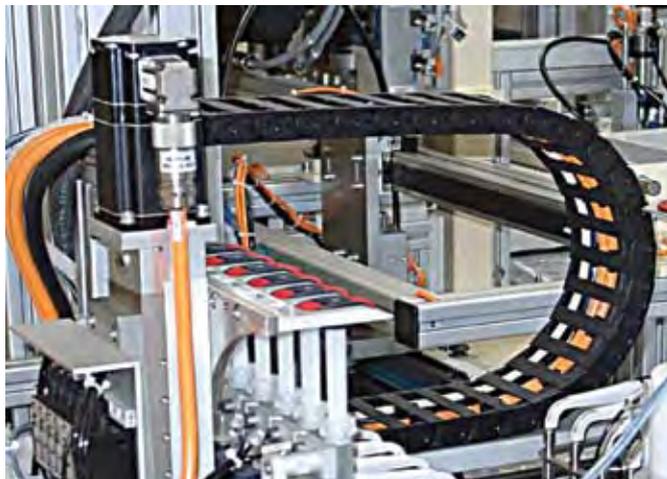
Dispensing technology · OEM

## The seripettor® dispensing system

Reliable technology for your individual dispensing tasks

This innovative high-precision dispensing technology based on the seripettor® bottle-top dispenser can be custom-tailored to any requirements and integrated into your process, as needed.

By using plastic dispenser components in combination with an autoclavable stainless steel distributor, this system is versatile enough for many applications, including high throughput operations.



### 12-channel (2 x 6-channel) seripettor® dosing system:

Fully automated dosing system for production line sample filling, integrated with a packaging system.

Capacity: 250 µl samples, 360 samples/min



### The centerpiece of the system:

Easily replaceable seripettor® dispensing cartridge. Piston (PE), cylinder (PP). Also available sterile.



Dispensing cartridges seripettor® 2, 10 and 25 ml

## Advantages

High precision and long-lasting durability

Solid system construction and high quality standard

Maximum performance and reliable, long-lasting operation

Use of system components from BRAND liquid handling devices

Volumes ranging from 20 µl to 25 ml per dispenser stroke

Low dead-space design for media channels and distribution – the result is easily cleanable and minimum losses when changing media

Maximum availability with minimum system down-time

Simple replacement of dispensing cartridges and valve heads – no tools needed

No need to recalibrate the dispensing system after changing and/or cleaning valve blocks and dispensing cartridges.

Low maintenance costs

Essential system components are patent protected.



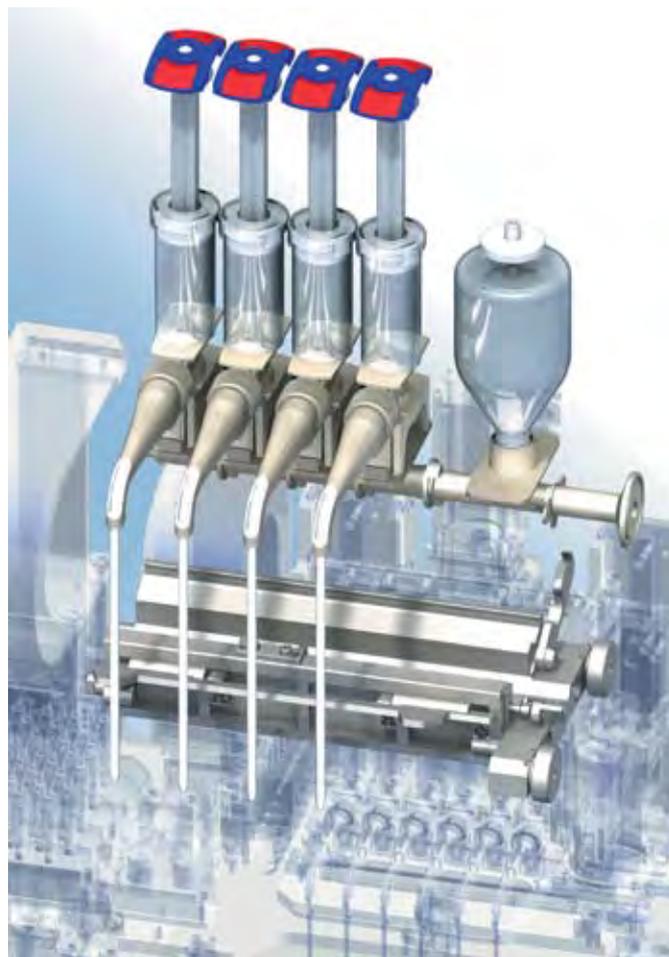
## The seripettor® FD Technology dispensing system

**Fully Disposable (FD) dispensing modules – also for sterile filling**

The consistent single-use solution for high-precision dispensing and filling of liquids in the sensitive pharma and consumer areas.

Ongoing development of the seripettor® dispensing system has produced an entirely novel, completely replaceable single-use dispensing module made of exceptionally pure plastics, bringing a series of additional advantages:

- Significant savings in costs and maintenance overhead
- Reduction of process risks
- Volumetric seripettor® dispensing technology, trusted the world over
- Dispensing modules made completely of plastic – can also be used as sterile consumable items
- No cleaning of the dispensing module needed
- Modular structure permits custom adaptation to special requirements
- Patent pending



## The seripettor® FD technology at a glance

CIP/SIP processes and the associated systems are no longer necessary. Now you can quickly replace the modular media- and /or product carrying components after every batch with a sterile, preassembled multichannel dispensing module that's ready to go.

- Cross-contamination is largely eliminated
- No residue due to cleaning errors
- Minimum maintenance overhead

The benefits to you:

- Significant reduction in investment costs
- Cleaning media no longer necessary
- Cleaning and sterilization validation eliminated
- Enormous time savings
- High availability of the production facilities



### Basic components

■ Modular medium distributor connector made of individual PP segments. Manufactured by injection moulding.

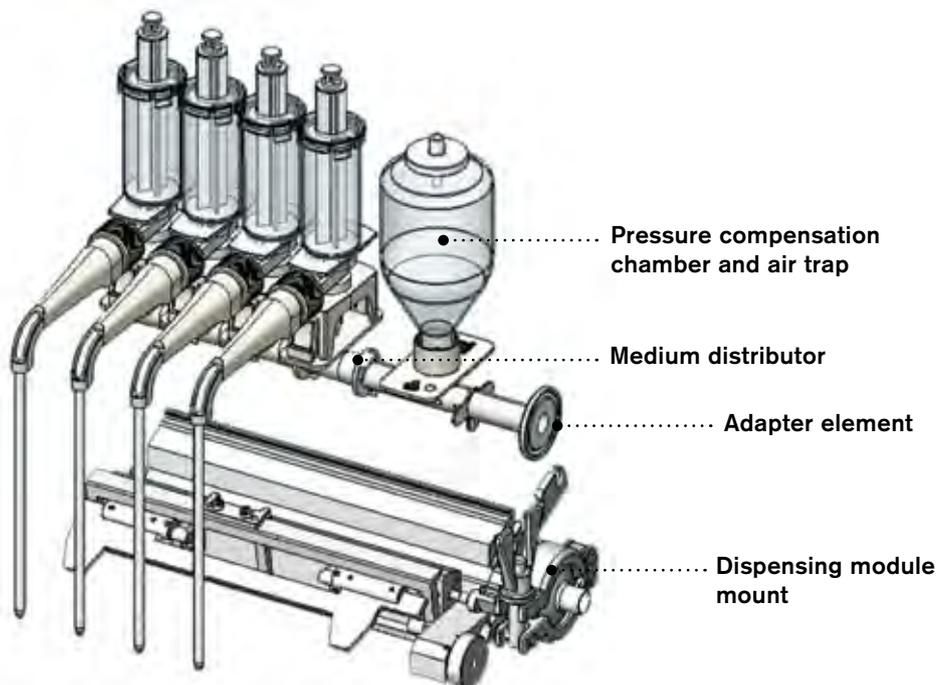
■ seripettor® dispensing cartridges and valve heads with integrated no-return-valve technology form a completely preassembled dispensing module together with the multiple media distributor.

■ The dispensing module mount, made of V4A steel, is used for securing the replaceable dispensing modules.

■ Dispensing and filling tubes can be mounted either flexibly, or rigidly to the dispensing module (not shown). A perpendicular or lengthwise orientation to the process is possible, depending on needs.

### Example:

**preassembled, single-use, 4-channel dispensing module (sterile)**



# OEM

## Original Equipment Manufacturing

### BRAND plastic technology

#### Demanding products for sensitive applications

Our strength lies in our expertise in manufacturing technically demanding plastic products characterized by outstanding visual properties and defined surface consistency. Mainly thermoplastic materials are used, under cleanroom conditions if needed.

An interdisciplinary team of specialists develops custom solutions for specific requirements – from concept to development to the implementation of high-performance products.



Plastic technology · OEM

## BRAND plastic technology

We develop the perfect solution –  
tailored to your specifications.



Plastic technology · OEM



### Competence through experience:

- Technical consulting
- Project management
- Development and construction of components
- Toolmaking
- Injection moulding and extrusion blow moulding of plastics
- Cleanroom production
- Welding using laser technology
- Plasma surface technology
- Marking and hot stamping
- Component assembly
- Quality assurance
- Packaging

### Time/cost savings

Coordinated development and production methods, a high degree of production automation, integrated quality control, and modern logistics all ensure the shortest possible time between planning and product introduction.

A choice between low-overhead short runs or automated mass production allows attractive unit prices for plastic products.

### OEM concept

BRAND controls the entire development process, from the analysis, concept, design, manufacturer of functional prototypes, right up to the finished product. All of the production and logistics for plastic products is then carried out in our modern injection moulding plant.

### Your contact

A personal contact follows the entire project at BRAND right from the start, and keeps you informed of the status of development work and production. The result is a collaboration that is transparent and always controllable.

## From concept to final product

BRAND is an experienced partner, from start to finish

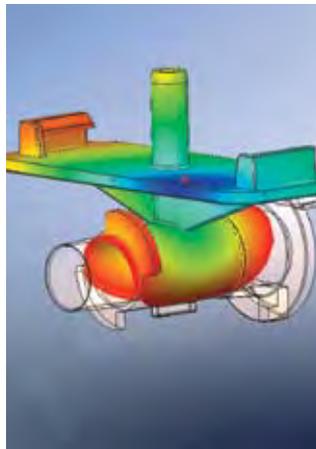
### Technical consulting

We start by working together with our customers to create a comprehensive requirements profile. Then, we develop a solution concept with the goal of a cost-effective and, if possible, fully automated production process.

### Project management

The work of our team is based on organized creative processes. We use systematic project organisation to coordinate the collaboration of individual team members from Development, Quality Planning, Plastics and Production Technology – always with the approval of our customer.

This allows us to determine the optimum product concept taking technical feasibility, functionality, and the design into consideration, from single products to complete assemblies.



### Development and construction of components

During development, we use the latest state-of-the-art procedures, e.g., production-integrated R&D, 3D CAD, simultaneous engineering, mould flow analysis, FEM, FMEA (Failure Mode and Effects Analysis), rapid prototyping, and CIM (Computer Integrated Manufacturing).

### Toolmaking

BRAND has decades of experience in the design, development, manufacture, and maintenance of high-end injection moulding tools. This ensures the highest possible fabrication quality.



### Injection moulding and extrusion blow moulding of plastics

With our injection moulding machines, controlled by 30 microprocessors and with clamping forces of up to 2000 kN, we can fabricate plastic parts with weights from 0.1 to 600 g.

Examples of high-quality OEM products:

- Single- and multiuse plastic items, like special cuvettes
- Parts for pharmacological packaging
- Accessories for test kits
- Components for lab-on-a-chip systems
- Variety of pipette tips
- Sterile-packaged plastic items

## No detours on the way to the goal

### Technological diversity

#### Quality assurance

BRAND meets the highest internationally recognized standards for quality in the OEM product area.

Modern robotic technology and consistently integrated quality testing (in-process control) ensure a reliably high standard of quality (see "Technical Information", page 282).



#### Clean room production

When needed, ISO 14644-1 class 5 to 8 clean rooms are available for the fabrication of endotoxin-free, DNA-free, ATP-free, and RNase-free materials. Upon request, all products can be delivered sterile in compliance with ISO 11137 and AAMI guidelines.

#### Laser welding

We use one of the most modern joining technologies - plastic laser welding, also with transmission techniques. Parts can be quickly, reliably joined without the use of adhesives.

At BRAND, this process is used for the manufacture of products used in pharma development and biotechnology.

#### Plasma surface treatment

This treatment makes it possible to modify plastic surfaces on a microscopic scale to produce specific properties – for instance, to bind hydrophobic or hydrophilic molecules.

#### Marking and assembly

At BRAND, marking can be carried out using tampon, silk screening, or hot stamping processes after component surfaces have been prepared by flame impingement or plasma or corona treatment. During final assembly, complete component groups are mounted and combined to produce the final product.



#### Packaging, logistics, and service

We carry out packaging and package assembly according to your specification. Item identification can be done with barcodes or any desired type of labeling.

BRAND guarantees adherence to deadlines and lot quantities, as well as flexibility in package assembly and intermediate storage. For customers, the reliance on our powerful warehouse and shipping system ensures smooth handling.